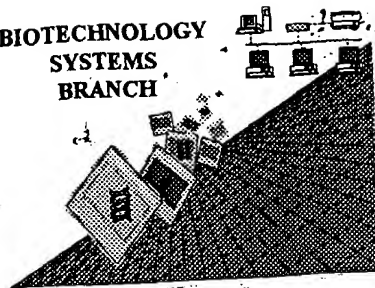# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/910,346_

Source: _OIPE_

Date Processed by STIC: _8/1/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: _09/910,346_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics
      Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino
      Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4____Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5____Variable Length

Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0
      "bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7____Skipped Sequences
      (OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences
      (NEW RULES)

Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's
      (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10____Invalid <213>
       Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11____Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0
       "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13__.__Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

```
RAW SEQUENCE LISTING                    DATE: 08/01/2001
PATENT APPLICATION:  US/09/910,346      TIME: 15:16:10

Input Set : A:\Leubontl.app
Output Set: N:\CRF3\08012001\I910346.raw
```

Does Not Comply
Corrected Diskette Needed

```
 3 <110> APPLICANT: STEWARD, LANCE E
 4        HERRINGTON, TODD M
 5        AOKI, KEI R
 7 <120> TITLE OF INVENTION: LEUCINE-BASED MOTIF AND CLOSTRIDIAL NEUROTOXIN
 9 <130> FILE REFERENCE: leucine-based motif and clostridial tx
11 <140> CURRENT APPLICATION NUMBER: US/09/910,346
12 <141> CURRENT FILING DATE: 2001-07-20
14 <160> NUMBER OF SEQ ID NOS: 18
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 7
20 <212> TYPE: PRT
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
25        propterties substantially similar to that of
26        leucine based sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
31 <400> SEQUENCE: 1
32 Xaa Asp Xaa Xaa Xaa Leu Leu
33    1               5
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 7
38 <212> TYPE: PRT
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
43        properties substantially similar to leucine based
44        motif
46 <220> FEATURE:
47 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
49 <400> SEQUENCE: 2
50 Xaa Glu Xaa Xaa Xaa Leu Leu
51    1               5
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 7
56 <212> TYPE: PRT
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
61        properties substantially similar to that of
62        leucine based motif
64 <400> SEQUENCE: 3
65 Xaa Asp Xaa Xaa Xaa Leu Ile
66    1               5
69 <210> SEQ ID NO: 4
```

W--> *see item 9 on Error Summary Sheet*

RAW SEQUENCE LISTING   DATE: 08/01/2001
PATENT APPLICATION: US/09/910,346   TIME: 15:16:10

       Input Set : A:\Leubontl.app
       Output Set: N:\CRF3\08012001\I910346.raw

      70 <211> LENGTH: 7
      71 <212> TYPE: PRT
      72 <213> ORGANISM: Artificial Sequence
      74 <220> FEATURE:
      75 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
      76   properties substantially similar to that of
      77   leucine based motif
      79 <400> SEQUENCE: 4
W--> 80 Xaa Asp Xaa Xaa Xaa Leu Met   *Xen 9*
      81   1   5
      84 <210> SEQ ID NO: 5
      85 <211> LENGTH: 7
      86 <212> TYPE: PRT
      87 <213> ORGANISM: Artificial Sequence
      89 <220> FEATURE:
      90 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
      91   properties substantially similar to that of
      92   leucine based motif
      94 <400> SEQUENCE: 5
W--> 95 Xaa Glu Xaa Xaa Xaa Leu Ile   *Xen 9*
      96   1   5
      99 <210> SEQ ID NO: 6
     100 <211> LENGTH: 7
     101 <212> TYPE: PRT
     102 <213> ORGANISM: Artificial Sequence
     104 <220> FEATURE:
     105 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
     106   properties substantially similar to leucine based
     107   motif
     109 <400> SEQUENCE: 6
W--> 110 Xaa Glu Xaa Xaa Xaa Leu Met   *Xen 9*
     111   1   5
     114 <210> SEQ ID NO: 7
     115 <211> LENGTH: 7
     116 <212> TYPE: PRT
     117 <213> ORGANISM: Unknown Organism
     119 <220> FEATURE:
     120 <223> OTHER INFORMATION: Description of Unknown Organism:This fragment may
     121   have come from a rat source.
     123 <400> SEQUENCE: 7
     124 Phe Glu Phe Tyr Lys Leu Leu
     125   1   5
     128 <210> SEQ ID NO: 8
     129 <211> LENGTH: 7
     130 <212> TYPE: PRT
     131 <213> ORGANISM: rat
     133 <220> FEATURE:
     134 <223> OTHER INFORMATION: This fragment is commonly known as "Rat VMAT 1".
     136 <300> PUBLICATION INFORMATION:

RAW SEQUENCE LISTING   DATE: 08/01/2001
PATENT APPLICATION: US/09/910,346   TIME: 15:16:10

Input Set : A:\Leubont1.app
Output Set: N:\CRF3\09012001\I910346.raw

```
        137 <301> AUTHORs: Liu, et al
        138 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
        139        the regulation of synaptic transmission
        140 <303> JOURNAL: Trends in Cell Biology
        141 <304> VOLUME: 9
        142 <306> PAGES: 356-363
W-->    143 <307> DATE: September 1999          invalid - use SEP-1999 format
        145 <400> SEQUENCE: 8
        146 Glu Glu Lys Arg Ala Ile Leu
        147    1           5
        150 <210> SEQ ID NO: 9                          (see 1.823f
        151 <211> LENGTH: 7
        152 <212> TYPE: PRT                              Sequence
        153 <213> ORGANISM: rat                           rules)
        155 <220> FEATURE:
        156 <223> OTHER INFORMATION: This fragment is commonly known as "Rat VMAT 2".
        158 <300> PUBLICATION INFORMATION:
        159 <301> AUTHORs: Liu, et al
        160 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
        161        the regulation of synaptic transmission
        162 <303> JOURNAL: Trends in Cell Biology
        163 <304> VOLUME: 9
        164 <306> PAGES: 356-363
W-->    165 <307> DATE: September 1999
        167 <400> SEQUENCE: 9
        168 Glu Glu Lys Met Ala Ile Leu
        169    1           5
        172 <210> SEQ ID NO: 10
        173 <211> LENGTH: 7
        174 <212> TYPE: PRT
        175 <213> ORGANISM: rat
        177 <220> FEATURE:
        178 <223> OTHER INFORMATION: This fragment is known as "Rat VAChT".
        180 <220> FEATURE:                 The what at position 1 ?
        181 <223> OTHER INFORMATION: The at position 1 may be phosporylated.
        183 <300> PUBLICATION INFORMATION:
        184 <301> AUTHORs: Liu, et al
        185 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
        186        the regulation of synaptic transmission
        187 <303> JOURNAL: Trends in Cell Biology
        188 <304> VOLUME: 9
        189 <306> PAGES: 356-363
W-->    190 <307> DATE: September 1999
        192 <400> SEQUENCE: 10
        193 Ser Glu Arg Asp Val Leu Leu
        194    1              5
        197 <210> SEQ ID NO: 11
        198 <211> LENGTH: 7
        199 <212> TYPE: PRT
```

RAW SEQUENCE LISTING   DATE: 08/01/2001
PATENT APPLICATION: US/09/910,346   TIME: 15:16:10

Input Set : A:\Leubont1.app
Output Set: N:\CRF3\08012001\I910346.raw

200 <213> ORGANISM: rat
202 <220> FEATURE:
203 <223> OTHER INFORMATION: This fragment is known as "Rat (delta)".
205 <400> SEQUENCE: 11
206 Val Asp Thr Gln Val Leu Leu
207   1   5
210 <210> SEQ ID NO: 12
211 <211> LENGTH: 7
212 <212> TYPE: PRT
213 <213> ORGANISM: mouse
215 <220> FEATURE:
216 <223> OTHER INFORMATION: This fragment is also known as "mouse (delta)".
218 <400> SEQUENCE: 12
219 Ala Glu Val Gln Ala Leu Leu
220   1   5
223 <210> SEQ ID NO: 13
224 <211> LENGTH: 7
225 <212> TYPE: PRT
226 <213> ORGANISM: frog
228 <220> FEATURE:
229 <223> OTHER INFORMATION: This fragment is known as "frog (gamma/delta)"
231 <220> FEATURE:
232 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
234 <400> SEQUENCE: 13
235 Ser Asp Lys Gln Asn Leu Leu
236   1   5
239 <210> SEQ ID NO: 14
240 <211> LENGTH: 7
241 <212> TYPE: PRT
242 <213> ORGANISM: chicken
244 <220> FEATURE:
245 <223> OTHER INFORMATION: This fragment is also known as "chicken
246   (gamma/delta)".
248 <220> FEATURE:
249 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
251 <400> SEQUENCE: 14
252 Ser Asp Arg Gln Asn Leu Ile
253   1   5
256 <210> SEQ ID NO: 15
257 <211> LENGTH: 7
258 <212> TYPE: PRT
259 <213> ORGANISM: sheep
261 <220> FEATURE:
262 <223> OTHER INFORMATION: This fragment is known as "Sheep (delta)".
264 <400> SEQUENCE: 15
265 Ala Asp Thr Gln Val Leu Met
266   1   5
269 <210> SEQ ID NO: 16
270 <211> LENGTH: 7

RAW SEQUENCE LISTING   DATE: 08/01/2001
PATENT APPLICATION: US/09/910,346   TIME: 15:16:10

Input Set : **A:\Leubontl.app**
Output Set: **N:\CRF3\08012001\I910346.raw**

```
271 <212> TYPE: PRT
272 <213> ORGANISM: human
274 <220> FEATURE:
275 <223> OTHER INFORMATION: This fragment is known as "Human CD3(delta)".
277 <220> FEATURE:
278 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
280 <300> PUBLICATION INFORMATION:
281 <301> AUTHORs: Liu, et al
282 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
283        the regulation of synaptic transmission
284 <303> JOURNAL: Trends in Cell Biology
285 <304> VOLUME: 9
286 <306> PAGES: 356-363
W--> 287 <307> DATE: September 1999
289 <400> SEQUENCE: 16
290 Ser Asp Lys Gln Thr Leu Leu
291    1              5
294 <210> SEQ ID NO: 17
295 <211> LENGTH: 7
296 <212> TYPE: PRT
297 <213> ORGANISM: human
299 <220> FEATURE:
300 <223> OTHER INFORMATION: This fragment is known as "Human CD4".
302 <220> FEATURE:
303 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
305 <300> PUBLICATION INFORMATION:
306 <301> AUTHORs: Liu, et al
307 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
308        the regulation of synaptic transmission
309 <303> JOURNAL: Trends in Cell Biology
310 <304> VOLUME: 9
311 <306> PAGES: 356-363
W--> 312 <307> DATE: September 1999
314 <400> SEQUENCE: 17
315 Ser Gln Ile Lys Arg Leu Leu
316    1              5
319 <210> SEQ ID NO: 18
320 <211> LENGTH: 7
321 <212> TYPE: PRT
322 <213> ORGANISM: human
324 <220> FEATURE:
325 <223> OTHER INFORMATION: This fragment is known as "Human (delta)".
327 <400> SEQUENCE: 18
328 Ala Asp Thr Gln Ala Leu Leu
329    1              5
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VERIFICATION SUMMARY DATE: 08/01/2001
PATENT APPLICATION: **US/09/910,346** TIME: 15:16:11

Input Set : **A:\Leubont1.app**
Output Set: **N:\CRF3\08012001\I910346.raw**

```
L:11  M:270 C: Current Application Number differs, Replaced Current Application Number
L:12  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:32  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:32  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:32  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:50  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:50  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:50  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:65  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:65  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:65  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:80  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:80  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:80  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:95  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
L:95  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
L:95  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:110 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:110 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:143 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:8
L:165 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:9
L:190 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:10
L:287 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:16
L:312 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:17
```